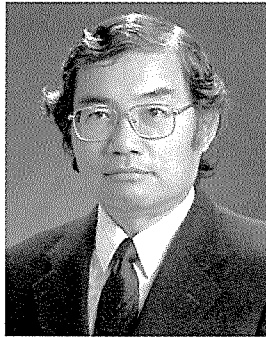


## 業績目録（山本和生）

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# 山本和生教授業績目録

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**受 賞**

なし

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日本遺伝学会（日本遺伝学会評議員，学会誌編集委員）

第75回日本遺伝学会大会を大会委員長として開催，平成15年 9 月

**社会における活動**

財団法人環境科学技術研究所低線量放射線遺伝子影響調査委員会委員

独立法人日本学術振興会研究費補助金審査委員（科学研究費委員会専門委員会委員，特別研究員等審査会専門委員，国際事業委員会書面審査員）

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## 業 績 目 録

## I. 著書・編著

1. 放射線生物実習  
編集 大西武男その他, 1978, 講談社, 山本和生  
紫外線照射大腸菌での DNA 合成  
山本和生 70-75頁.
2. Molecular Actions and Targets for Chemotherapeutic Agent  
編集. A.C. Sartorelli, J.R. Bertino and J.S. Lazo, 1981, Academic Press N.Y.  
The action of bleomycin in solution and in cells. pp193-209.  
Franklin Hutchinson, Lawrence F. Povirk and Kazuo Yamamoto
3. ADP ribosylation, DNA repair and Cancer  
編集. M. Miwa その他, 1983, Japan Sci. Soc. Press Tokyo/VUN Sci. Press  
Utrecht  
Role of poly(ADP-ribose) synthesis in repair and replication in normal,  
Cockayne Syndrome and Xeroderma Pigmentosum fibroblasts after UV ir-  
radiation. pp209-218.  
Yoshisada Fujiwara, Kaoru Goto, Kazuo Yamamoto and Masamichi Ichihashi
4. 健康と環境 II  
編集 池永満生, 野村大成, 森本兼襄, 1998, 株式会社へるす出版, 活性酸素  
による DNA の傷とその修復。  
山本和生 183-197頁.
5. IGE-series  
編集 熊谷忠 2000, 東北大学遺伝生態研究センター  
シロイヌナズナの 6-4 光回復酵素遺伝子  
中嶋敏, 山本和生 21-32頁
6. 「エッセンシャル遺伝学」分担翻訳  
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山本和生 401-412頁

## II. 研究論文

## 欧文

1. 4-NQO-induced deletion mutation in E. coli strain with different DNA repair capacities. Kazuo Yamamoto and Yutaka Ishii, Mutation Res., 22 (1974) 81-83.

2. Molecular mechanisms of N-methyl-N'-nitro-N-nitrosoguanidine on intracellular phage lambda.  
Kazuo Yamamoto, Sohei Kondo and Takashi Sugimura, J. Mol. Biol., 118 (1978) 413-430.
3. Response to bleomycin on Escherichia coli mutants deficient in DNA repair.  
Kazuo Yamamoto and Franklin Hutchinson, J. Antibiot., 32 (1979) 1181-1185.
4. Sister-chromatid exchanges are not directly related to 6-thioguanine resistant mutations induced by UV radiation in V79 chinese hamster cells.  
Yoshisada Fujiwara, Mariko Tatsumi, Yoshio Kano, Kazuo Yamamoto, Noriyuki Miyazaki, Parmender Paul, Kaoru Goto and Masamichi Ichihashi, GANN, 72 (1981) 145-150
5. Excision and crosslink repair of DNA and sister chromatid exchanges in cultured human fibroblasts with different repair capacities.  
Yoshisada Fujiwara, Yoshio Kano, Parmender Paul, Kaoru Goto, Kazuo Yamamoto and Noriyuki Miyazaki, GANN Monograph on Cancer Res., 27 (1982) 33-44.
6. Mutation and W-reactivation of lambda phage by mitomycin C in the excision defective Escherichia coli.  
Kazuo Yamamoto, Toshio Doi and Yoshiaki Kawa, Mutation Res., 105 (1982) 139-143.
7. Induction of prophage lambda in Escherichia coli by N-methyl-N'-nitro-N-nitrosoguanidine.  
Kazuo Yamamoto, Hideo Shinagawa and Sohei Kondo, Mutation Res., 107 (1983) 33-40.
8. Amelioration of the ultraviolet sensitivity of an Escherichia coli recA mutant in the dark by photoreactivating enzyme.  
Kazuo Yamamoto, Mitsunobu Satake, Hideo Shinagawa and Yoshisada Fujiwara, Mol. Gen. Genet., 190 (1983) 511-515.
9. Evidence that the phr+ gene enhances the ultraviolet resistance of Escherichia coli recA strain in the dark.  
Kazuo Yamamoto, Yoshisada Fujiwara and Hideo Shinagawa, Mol. Gen. Genet., 192 (1983) 282-284.
10. Increase in the apparent sensitivity of HeLa cells on a membrane filter to ultraviolet radiation.  
Kunio Shinohara, Yoshio Inoue and Kazuo Yamamoto, J. Radiat. Res., 24 (1983) 339-344.

11. Roles of poly(ADP-ribose) synthesis in repair and replication in normal human, Cockayne syndrome, and xeroderma pigmentosum fibroblasts after UV irradiation.  
Yoshisada Fujiwara, Kaoru Goto, Kazuo Yamamoto and Masamichi Ichihashi, *Int. Symp. Princess Takamatsu Cancer Res. Fund.*, 13 (1983) 209-218.
12. A multicopy phr-plasmid increases ultraviolet resistance of a *recA* strain of *Escherichia coli*.  
Kazuo Yamamoto, Mitsunobu Satake and Hideo Shinagawa, *Mutation Res.*, 131 (1984) 11-18.
13. Genetic activity of bleomycin in *Escherichia coli*.  
Kazuo Yamamoto, Takeshi Hiramoto, Hideo Shinagawa and Yoshisada Fujiwara, *Chem. Biol. Interactions*, 48 (1984) 145-152.
14. The effect of bleomycin in *E. coli* K12 cells.  
Kazuo Yamamoto and Franklin Hutchinson, *Chem. Biol. Interactions*, 51 (1984) 233-246.
15. Weigle reactivation of phage lambda in a *recA* mutant of *Escherichia coli*: Dependence on the excess amounts of photoreactivating enzyme in the dark.  
Kazuo Yamamoto and Hideo Shinagawa, *Mutation Res.*, 145 (1985) 137-144.
16. Photoreactivation of UV damage in *Escherichia coli* *uvrA6*: Lethality is more effectively reversed than either premutagenic lesions or SOS induction.  
Kazuo Yamamoto, Hideo Shinagawa and Takeo Ohnishi, *Mutation Res.*, 146 (1985) 33-42.
17. A loss of *uvrA* function decreases the SOS functions *recA* and *umuC* induction by mitomycin C in *Escherichia coli*.  
Kazuo Yamamoto, Toshiaki Higashikawa, Kunitaka Ohta and Yoshimitsu Oda, *Mutation Res.*, 149 (1985) 297-302.
18. Induction of *umuC+* gene expression in *Escherichia coli* irradiated by near ultraviolet light.  
Noriko Sato, Takeo Ohnishi, Keizo Tano, Kazuo Yamamoto and Keiichi Nozu, *Photochem. Photobiol.*, 42 (1985) 135-139.
19. Convenient construction of strain useful for transducing *recA* mutations with bacteriophage P1.  
Makoto Ihara, Yoshimitsu Oda and Kazuo Yamamoto, *FEMS Microbiol. Letters*, 30 (1985) 33-35.



20. Photoreactivation reverses ultraviolet radiation premutagenic lesions leading to frameshift mutations in *Escherichia coli*.  
Kazuo Yamamoto, *Mol. Gen. Genet.*, 201 (1985) 141–145.
21. Photoreactivation enzyme and DNA repair.  
Kazuo Yamamoto and Makoto Ihara, *Photomed. Photobiol.*, 7 (1985) 77–78.
22. Induction of SOS functions by nitrogen dioxide in *Escherichia coli* with different DNA–repair capacities.  
Hiroaki Kosaka, Kazuo Yamamoto, Yoshimitsu Oda and Mitsuro Uozumi, *Mutation Res.*, 162 (1986) 1–5.
23. Induction of *phr* gene expression by irradiation of ultraviolet light in *Escherichia coli*.  
Makoto Ihara, Kazuo Yamamoto and Takeo Ohnishi, *Mol. Gen. Genet.*, 209 (1987) 200–202.
24. Induction of *phr* gene expression by pyrimidine dimers in *Escherichia coli*.  
Makoto Ihara, Kazuo Yamamoto and Takeo Ohnishi, *Photochem. Photobiol.*, 46 (1987) 359–361.
25. Effect of photoreactivation on mutagenesis of lambda phage and phage DNA by ultraviolet light.  
Franklin Hutchinson, Kazuo Yamamoto, Judith Stein and Richard D. Wood, *J. Mol. Biol.*, 202 (1988) 593–601.
26. In vivo complex with DNA photolyase blocks UV–mutagenesis targeted at a thymine–cytosine dimer in *E. coli*.  
Manuel Ruiz–Rubio, Kazuo Yamamoto and Richard Bockrath, *J. Bacteriol.*, 170 (1988) 5371–5374.
27. DNA photolyase in *E. coli*; effects on UV mutagenesis by plasmids expressing the *phr* gene.  
Kazuo Yamamoto and Richard Bockrath, *Mutation Res.*, 226 (1989) 259–262.
28. Construction of *Escherichia coli* K12 *phr* deletion and insertion mutants by gene replacement.  
Susumu Akasaka and Kazuo Yamamoto, *Mutation Res.*, 254 (1991) 27–35.
29. Dissection of functional domains in *Escherichia coli* DNA photolyase by linker–insertion mutations.  
Kazuo Yamamoto, *Mol. Gen. Genet.*, 232 (1992) 1–6.

30. Effect of flash photoreactivation on *Escherichia coli* recA induction by ultraviolet light.  
Kazuo Yamamoto, FEMS Microbiol. Letters, 90 (1992) 31–36.
31. G:C→T:A and G:C→C:G transversions are the predominant spontaneous mutations in the *Escherichia coli* supF gene; an improved lacZ(am) *E. coli* host designed for assaying pZ189 supF mutational specificity.  
Susumu Akasaka, Kouichi Takimoto and Kazuo Yamamoto, Mol. Gen. Genet., 235 (1992) 173–178.
32. Repair of 8-hydroxyguanine in DNA by mammalian N-methylpurine–DNA glycosylase.  
Tadamasa Bessho, R. Roy, Kazuo Yamamoto, Hiroshi Kasai, Susumu Nishimura, Keizo Tano and Sankar Mitra, Proc. Natl. Acad. Sci. USA, 90 (1993) 8901–8904.
33. Spectrum of proton-induced mutagenesis of *Escherichia coli* crp gene.  
Kouichi Takimoto, Kazuo Yamamoto, Tsuneo Sagara and Kanji Ishizaki, Mutation Res., 314 (1994) 1–9.
34. Hydrogen peroxide induces G:C to T:A and G:C to C:G transversions in the supF gene of *Escherichia coli*.  
Susumu Akasaka and Kazuo Yamamoto, Mol. Gen. Genet., 243 (1994) 500–505.
35. Mutagenesis resulting from DNA damage by lipid peroxidation in the supF gene of *Escherichia coli*.  
Susumu Akasaka and Kazuo Yamamoto, Mutation Res., 315 (1994) 105–112.
36. Mutations of a shuttle vector plasmid, pZ189, in *Escherichia coli* induced by boron neutron captured beam (BNCB) containing  $\alpha$ -particles.  
Tatsuo Nakano, Kumio Okaichi, Kazuki Harada, Hideki Matsumoto, Rika Kimura, Kazuo Yamamoto, Susumu Akasaka and Takeo Ohnishi, Mutation Res., 336 (1995) 153–159.
37. DNA sequence changes in mutation in the tonB gene on the chromosome of *Escherichia coli* K12; Insertion elements dominate the spontaneous spectra.  
Kouki Kitamura, Yu-ichiro Torii, Chiaki Matsuoka and Kazuo Yamamoto, Jpn. J. Genet., 70 (1995) 35–46.
38. Isolation of cDNAs encoding GTP cyclohydrolase II for *Arabidopsis thaliana*.  
Masahiko Kobayashi, Munetaka Sugiyama and Kazuo Yamamoto, Gene, 160 (1995) 303–304.

39. Mutational specificity of the ferrous ion in a *supF* gene of *E. coli*.  
Susumu Akasaka and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 213 (1995) 74–80.
40. Spontaneous mutant frequency of *lacZ* gene in spleen of Muta<sup>TM</sup>-mouse increases with age.  
Tetsuya Ono, Y. Miyamura, H. Ikehata, H. Yamanaka, Akihiro Kurishita, Kazuo Yamamoto, T. Suzuki, T. Nohmi, M. Hayashi and T. Sofuni, *Mutation Res.*, 338 (1995) 183–188.
41. Similarity among the *Drosophila* (6–4)photolyase, a human photolyase homolog, and the DNA photolyase–blue–light photoreceptor family.  
Takeshi Todo, Haruko Ryo, Kazuo Yamamoto, Hiroyuki Toh, Taiichi Inui, Hitoshi Ayaki, Taisei Nomura, Mituo Ikenaga, *Science*, 272 (1996) 109–112.
42. Mutagenic specificity of ultraviolet light in the *tonB* gene on the chromosome of *Escherichia coli* *uvrA* cells.  
Kouki Kitamura and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 220 (1996) 496–501.
43. Characterization of a UV endonuclease gene from the fission yeast *Schizosaccharomyces pombe* and its bacterial homolog.  
Masashi Takao, Rie Yonemasu, Kazuo Yamamoto and Akira Yasui, *Nucleic Acids Res.*, 24 (1996) 1267–1271.
44. Mutagenic specificity of N–methyl–N'–nitro–N–nitrosoguanidine in the *tonB* gene on the chromosome of *Escherichia coli* *recA*<sup>+</sup> and *recA*<sup>–</sup> cells.  
Xue Wang, Kouki Kitamura and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 227 (1996) 334–339.
45. Enzymatic repair mechanisms for base modifications induced by oxygen radicals.  
Kazuo Yamamoto, Fumiko Uraki, Shuji Yonei and Osami Yukawa, *J. Radiat. Res.*, 38 (1997) 1–4.
46. Spectrum of spontaneous mutation in the cyclic AMP receptor protein gene on the chromosome of *Escherichia coli* cells.  
Koichi Takimoto, Akira Tachibana, Hitoshi Ayaki, and Kazuo Yamamoto, *J. Radiat. Res.*, 38 (1997) 27–36.
47. Characterization of the alternative excision repair pathway of UV–damaged DNA in *Schizosaccharomyces pombe*.  
Rie Yonemasu, Shirley McCready, Johanne M Murray, Fikret Osman, Masashi Takao, Kazuo Yamamoto, Alan R. Lehmann and Akira Yasui, *Nucleic Acids Res.*, 25 (1997) 1553–1559.

48. Mutational specificity of topB deletion mutator in *Escherichia coli*.  
Norio Uematsu, Sachiko Eda and Kazuo Yamamoto, *Mutation Res.*, 383 (1997) 223–230.
49. Characterization of endonuclease III (nth) and endonuclease VIII (nei) mutants of *Escherichia coli* K12.  
Yusuke Saito, Fumiko Uraki, Satoshi Nakajima, Ayumi Asaeda, Keiichi Ono, Kihei Kubo and Kazuo Yamamoto, *J. Bacteriol.*, 179 (1997) 3783–3785.
50. Cloning and characterization of mammalian 8-hydroxyguanine-specific DNA glycosylase/apurinic, apyrimidinic lyase, a functional mutM homologue.  
Hiroyuki Aburatani, Yoshitaka Hippo, Toshimitsu Ishida, Rieko Takashima, Chikako Matsuba, Tatsuhiko Kodama, Masashi Takao, Akira Yasui, Kazuo Yamamoto, Midori Asano, Kazuhiro Fukasawa, Tomoko Yoshinari, Hideo Inoue, Eiko Ohtsuka, and Susumu Nishimura, *Cancer Res.*, 57 (1997) 2151–2156.
51. X-ray- and ultraviolet-radiation-induced mutations in Muta<sup>TM</sup> Mouse.  
Tetsuya Ono, Hironobu Ikehata, Yoshio Hosoi, Bok Shil Shung, Akihiko Kurishita, Xue Wang, Kazuo Yamamoto, Takayoshi Suzuki and Toshio Sofuni, *Radiat. Res.*, 148 (1997) 123–128.
52. Mutational specificity of the ferrous ion in a supF gene of endonuclease III/ VIII deficient *Escherichia coli*.  
Hideo Shimamura, Susumu Akasaka, Kihei Kubo, Yusuke Saito, Satoshi, Nakajima, Keizo Tano, Hiroshi Utsumi and Kazuo Yamamoto, *J. Radiat. Res.*, 38 (1997) 165–171.
53. Frameshifts, base substitutions and minute deletions constitute X-ray-induced mutations in the endogenous tonB gene of *Escherichia coli* K12.  
Kenji Kanbashi, Xue Wang, Jun-ichiro Komura, Tetsuya Ono and Kazuo Yamamoto, *Mutation Res.*, 385 (1997) 259–267.
54. A comparison of the genotoxicity of ethylnitrosourea and ethyl methanesulfonate in lacZ transgenic mice.  
Takayoshi Suzuki, Makoto Hayashi, Xue Wang, Kazuo Yamamoto, Tetsuya Ono, Brian C. Myhr and Toshio Sofuni, *Mutation Res.*, 395 (1997) 75–82.
55. Cloning and characterization of a gene (UVR3) required for photorepair of 6–4 products in *Arabidopsis thaliana*.  
Satoshi Nakajima, Munetaka Sugiyama, Shigenori Iwai, Kenichi Hitomi, Eriko Ootoshi, Sang-Tae Kim, Cai-Zhong Jiang, Takeshi Todo, Anne B. Britt and Kazuo Yamamoto, *Nucleic Acids Res.*, 26 (1998) 638–644.

56. Cloning and characterization of a mouse homologue (mNth11) of *Escherichia coli* endonuclease III.  
Altaf H. Sarker, Shogo Ikeda, Hironobu Nakano, Hiroaki Terato, Hiroshi Ide, Kotoe Imai, Kosuke Akiyama, Ken Tsutsui, Zhang Bo, Kihei Kubo, Kazuo Yamamoto, Akira Yasui, Michihiro C. Yoshida, and Shuji Seki, *J. Mol. Biol.*, 282 (1998) 761–774.
57. Potential of GTP cyclohydrolase II of *Escherichia coli* for hydrolyzing 8-oxo-dGTP, a mutagenic substrate for DNA synthesis.  
Masahiko Kobayashi, Yuko Ohara-Nemoto, Masaru Kaneko, Hiroshi Hayakawa, Mutsuo Sekiguchi and Kazuo Yamamoto, *J. Biol. Chem.*, 273 (1998) 26394–26399.
58. Specificity of mutation induced in the supF gene by riboflavin mediated photosensitization in *Escherichia coli*.  
Keizo Tano, Mitsumasa Hashimoto, Midori Asano, Susumu Akasaka, Kazuo Yamamoto, Hiroshi Utsumi and Koichi Takimoto, *Mutation Res.*, 420 (1998) 7–13.
59. An improved system for selection of forward mutations in an *Escherichia coli* supF gene carried by plasmids.  
Fumiko Obata, Tatsuo Nunoshiba, Tamotsu Hashimoto-Gotoh and Kazuo Yamamoto, *J. Radiat. Res.*, 39 (1998) 263–270.
60. The genomic organization of the *Arabidopsis* 6–4 photolyase gene (Accession No. AB017331) (PGR98–180).  
Ayako Sakamoto, Atsushi Tanaka, Shigemitsu Tano, Satoshi Nakajima, Kazuo Yamamoto and Hiroshi Watanabe, *Plant Physiol.*, 118 (1998) 1101.
61. Cobaltous chloride-induced mutagenesis in the supF tRNA gene of *Escherichia coli*.  
Hiroaki Iyehara-Ogawa, Yusuke Ohyama, Kohji Kakimoto, Yasuhiko Kato, Yasuhiko Shirai, Tatsuo Nunoshiba and Kazuo Yamamoto, *Mutagenesis*, 14 (1999) 249–253.
62. Asymmetric crossover for spontaneous formation of large deletions at the tonB–trp region of *Escherichia coli* K–12 cells.  
Norio Uematsu, Chiaki Matsuoka, Emi Nagoshi and Kazuo Yamamoto, *Mol. Gen. Genet.*, 261 (1999) 523–529.
63. Genomic organization of the extraordinary radioresistant bacterium *Deinococcus radiodurans*: physical map and evidence for multiple replicons.  
Masahiro Kikuchi, Issay Narumi, Shigeru Kitayama, Hiroshi Watanabe and Kazuo Yamamoto, *FEMS Microbiol. Letters*, 174 (1999) 151–157.

64. Role of glutathione on acrolein-induced cytotoxicity and mutagenicity in *Escherichia coli*.  
Tatsuo Nunoshiba and Kazuo Yamamoto, *Mutation Res.*, 442 (1999) 1–8.
65. DNA sequence analysis of spontaneous *tonB* deletion mutations in a *polA1* strain of *Escherichia coli* K12.  
Yumi Agemizu, Norio Uematsu and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 261 (1999) 584–589.
66. *Deinococcus radiodurans* *recN* gene: A molecular analysis of mitomycin-C sensitive strain and gene.  
Tomoo Funayama, Issay Narumi, Masahiko Kikuchi, Shigeru Kitayama, Hiroshi Watanabe and Kazuo Yamamoto, *Mutation Res.*, 435 (1999) 151–161.
67. Molecular nature of mutation induced by high dose of X-ray in spleen, liver and brain of the *lacZ*-transgenic mouse.  
Tetsuya Ono, Hironobu Ikehata, Yusuke Saito, Jun-ichiro Komura, Yoshio Hosoi, and Kazuo Yamamoto, *Environ. Mol. Mutagenesis*, 34 (1999) 97–105.
68. Role of iron and superoxide for generation of hydroxyl radical, oxidative DNA lesions and mutagenesis in *Escherichia coli*.  
Tatsuo Nunoshiba, Fumiko Obata, Antoine C.G. Boss, Shinji Oikawa, Toshiaki Mori, Shousuke Kawanishi and Kazuo Yamamoto, *J. Biol. Chem.*, 274 (1999) 34832–34837.
69. Molecular analysis of *Deinococcus radiodurans* *recA* locus and identification of a mutation site in a DNA-repair deficient mutant *rec30*.  
Issay Narumi, Katsuya Satoh, Masahiko Kikuchi, Shigeru Kitayama, Tadashi Yanagisawa, Hiroshi Watanabe and Kazuo Yamamoto, *Mutation Res.*, 435 (1999) 233–243.
70. Control of taste sensitivity by *Drosophila* taste receptor gene *Tre*.  
Hiromi Morita, Kunio Isono, Kohei Ueno, Masayuki Ohta, Yuka Mikuni, Satoshi Nakajima, Kazuo Yamamoto, Yasuo Tsukahara, *Jpn. J. Taste. Smell. Res.*, 6 (1999) 493–496.
71. Spontaneous and osmium tetroxide induced mutagenesis in *Escherichia coli* strain deficient both endonuclease III and endonuclease VIII.  
Tanbir Najrana, Yusuke Saito, Fumiko Uraki, Kihei Kubo and Kazuo Yamamoto, *Mutagenesis*, 15 (2000) 121–125.
72. Age-associated increase of spontaneous mutation frequency and molecular nature of mutation in newborn and old *lacZ*-transgenic mouse.  
Tetsuya Ono, Hironobu Ikehata, Shingo Nakamura, Yusuke Saito, Yoshio Hosoi, Yoshihiro Takai, Shogo Yamada, Junichi Onodera and Kazuo Yamamoto, *Mutation Res.*, 447 (2000) 165–177.

73. Radiation-induced mutation in spleen and brain of lacZ transgenic mouse.  
Shingo Nakamura, Hironobu Ikehata, Jun-ichiro Komura, Yoshio Hosoi, Hiroaki Inoue, Yoichi Gondo, Kazuo Yamamoto, Yusuke Ichimasa and Tet-suya Ono, *Int. J. Radiat. Biol.*, 76 (2000) 431–440.
74. Characterization of spontaneous mutation in the oxyR strain of *Escherichia coli*.  
Eiji Yamamura, Tatsuo Nunoshiba, Masakado Kawata and Kazuo Yamamoto, *Biochem Biophys Res Commun.*, 279 (2000) 427–432.
75. Effect of photoreactivation for cyclobutane pyrimidine dimers and pyrimidine (6–4) pyrimidone photoproducts on ultraviolet mutagenesis in SOS-induced *Escherichia coli*.  
Masashi Tanaka, Satoshi Nakajima, Makoto Ihara, Tsukasa Matsunaga, Osamu Nikaido and Kazuo Yamamoto, *Mutagenesis*, 16 (2001) 1–6.
76. Miscoding and misincorporation of 8-oxo-guanine during leading and lagging strand synthesis in *Escherichia coli*.  
Takashi Watanabe, Gilinde van Geldorp, Tanbir Najrana, Eiji Yamamura, Tatsuo Nunoshiba and Kazuo Yamamoto, *Mol Gen Genet.*, 264 (2001) 836–841.
77. An in vivo approach to identifying sequence context of 8-oxoguanine mutagenesis.  
Takashi Watanabe, Tatsuo Nunoshiba, Masakado Kawata and Kazuo Yamamoto, *Biochem Biophys Res Commun.*, 284 (2001) 179–184
78. Trehalose sensitivity in *Drosophila* correlates with mutations in and expression of the gustatory receptor gene Gr5a.  
Kohei Ueno, Masayuki Ohta, Hiromi Morita, Yuka Mikuni, Satoshi Nakajima, Kazuo Yamamoto and Kunio Isono, *Current Biol.*, 11 (2001) 1451–1455
79. The LexA protein from *Deinococcus radiodurans* is not involved in RecA induction following  $\gamma$ -ray irradiation.  
Issay Narumi, Katsuya Satoh, Masahiro Kikuchi, Tomoo Funayama, Tadashi Yanagisawa, Yasuhiko Kobayashi, Hiroshi Watanabe and Kazuo Yamamoto, *J. Bacteriol.*, 183 (2001) 6951–6956.
80. Amplified UvrA protein can ameliorate the ultraviolet sensitivity of an *Escherichia coli* recA mutant.  
Kazuhiro Kiyosawa, Masashi Tanaka, Tsukasa Matsunaga, Osamu Nikaido and Kazuo Yamamoto, *Mutation Res.*, 487 (2001) 149–156
81. The roles of Klenow processing and flap processing activities of DNA polymerase I in chromosome instability in *Escherichia coli* K12 strains.  
Yuki Nagata, Kazumi Mashimo, Masakado Kawata and Kazuo Yamamoto, *Genetics*, 160 (2002) 13–23

82. Characterization of RecA424 and RecA670 proteins from *Deinococcus radiodurans*,  
Katsuya Satoh, Issay Narumi, Masahiro Kikuchi, Sigeru Kitayama, Tadashi Yanagisawa, Kazuo Yamamoto and Hiroshi Watanabe, *J. Biochemistry*, 131 (2002) 121–129
83. Mutagenic target for hydroxyl radicals generated in *Escherichia coli* mutant deficient in Mn- and Fe-superoxide dismutases and Fur, a repressor for iron-uptake systems.  
Tatsuo Nunoshiba, Takashi Watanabe, Yusaku Nakabeppu and Kazuo Yamamoto, *DNA Repair* 1 (2002) 411–418.
84. Characterization of spontaneous mutation in the DsoxR and SoxS over-producing strains of *Escherichia coli*.  
Eiichi Yamamura, Eun Hye Lee, Akihiro Kuzumaki, Norio Uematsu, Nunoshiba T, Kawata M and Kazuo Yamamoto, *J Radiat Res.*, 43 (2002) 195–203.
85. Effects of Heavy-ion Radiosurgery on the Hemopoietic Function of the Silkworm *Bombyx mori*.  
Zhen-Li Tu, Yasuhiko Kobayashi, Kenji Kiguchi, Hiroshi Watanabe And Kazuo Yamamoto, *J Radiat. Res.*, 43 (2002) 269–275.
86. H Novel repair activities of AlkA (3-methyladenine DNA glycosylase II) and endonuclease VIII for xanthine and oxanine, guanine lesions induced by nitric oxide and nitrous acid.  
iroaki Terato, Aya Masaoka, Kenjiro Asagoshi, Akiko Honsho, Yoshihiko Ohyama, Toshinori Suzuki, Masaki Yamada, Keisuke Makino, Kazuo Yamamoto and Hiroshi Ide, *Nucleic Acids Res.*, 30 (2002) 4975–4984.
87. Detection of DNA damage in individual cells induced by heavy-ion irradiation with an non-denaturing comet assay.  
Seiichi Wada, Yasuhiko Kobayashi, Tomoo Funayama, Masahiro Natsuhori, Nobuhiko Ito and Kazuo Yamamoto, *J. Radiat. Res.*, 43 (2002) Suppl., S153–S156.
88. Differences in amino acid sequences of CPD photolyase between UV-sensitive and UV-resistant rice cultivars.  
Mika Teranishi, Jun Hidema, Takana Fujino, Tokuhisa Hirouchi, Kazuo Yamamoto and Tadashi Kumagai, *J. Photoscience*, 9 (2002) 329–331.
89. Identification of high excision capacity for 5-hydroxymethyluracil mispaired with guanine in DNA of *Escherichia coli* MutM, Nei and Nth DNA glycosylases.  
Masaki Hori, Shuji Yonei, Hiroshi Sugiyama, Katsuhito Kino, Kazuo Yamamoto and Qiu-Mei Zhang, *Nucleic Acids Res.*, 31 (2003) 1191–1196.



90. Roles of the RecJ and RecQ proteins in spontaneous formation of deletion mutations in the *Escherichia coli* K-12 endogenous *tonB* gene.  
Kazumi Mashimo, Masakado Kawata and Kazuo Yamamoto, *Mutagenesis*, 18 (2003) 355–363.
91. Class II DNA photolyase gene from *Oryza sativa*; Cloning the cDNA by dilution–amplification.  
Tokuhisa Hirouchi, Satoshi Nakajima, Tanbir Najrana, Masashi Tanaka, Tsukasa Matsunaga, Jun Hidema, Mika Teranishi, Takana Fujino, Tadashi Kumagai and Kazuo Yamamoto, *Mol. Genet. Genom.*, 269 (2003) 508–516.
92. X-ray-induced mutations in *Escherichia coli* K-12 strains with altered DNA polymerase I activities.  
Yuki Nagata, Masakado Kawata, Jun-ichiro Komura, Tetsuya Ono and Kazuo Yamamoto, *Mutation Res.*, 528 (2003) 93–103.
93. Hydrogen peroxide-induced microsatellite instability in the *Escherichia coli* K-12 endogenous *tonB* gene.  
Eiji Yamamura, Tatsuo Nunoshiba, Takehiko Nohmi, and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 306 (2003) 570–576.
94. The Relationship between Cellular Radiosensitivity and Radiation-Induced DNA Damage Measured by the Comet Assay.  
Seiichi Wada, H. Kurahayashi, Yasuhiko Kobayashi, Tomoo Funayama, Kazuo Yamamoto, Masahiro Natsuhori, Nobuhiko Ito, *J. Vet. Med. Sci.*, 65 (2003) 471–477.
95. Detection of Radiation-Induced Apoptosis Using the Comet Assay.  
Seiichi Wada, Tran Van Khoa, Yasuhiko Kobayashi, Tomoo Funayama, Kazuo Yamamoto, Masahiro Natsuhori and Nobuhiko Ito, *J. Vet. Med. Sci.*, 65 (2003) 1161–1166.
96. *Saccharomyces cerevisiae* RAD27 complements its *Escherichia coli* homolog in damage repair but not mutation avoidance.  
Gaku Ohnishi, Yasukazu Daigaku, Yuki Nagata, Makoto Ihara and Kazuo Yamamoto, *Gene Genet. Systems*, 79 (2004) 183–187.
97. Role of the RuvAB protein in avoiding spontaneous formation of deletion mutations in the *Escherichia coli* K-12 endogenous *tonB* gene.  
Kazumi Mashimo, Yuki Nagata, Masakado Kawata, Hiroshi Iwasaki and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 323 (2004) 197–203.
98. A novel Nudix hydrolase for oxidized purine nucleoside triphosphates encoded by ORFYLR151c (*PCD1* gene) in *Saccharomyces cerevisiae*.  
Tatsuo Nunoshiba, Rikiya Ishida, Sachi Sasaki, Shigenori Iwai, Yusaku Nakabepu and Kazuo Yamamoto, *Nucleic Acids Res.*, 32 (2004) 5339–5348

99. Loss of heterozygosity and DNA damage repair in *Saccharomyces cerevisiae*. Yasukazu Daigaku, Kingo Endo, Eri Watanabe, Tetsuya Ono and Kazuo Yamamoto, *Mutation Res.*, 556 (2004) 183–191.
100. UV-induced DNA damage and tolerance for survival of nucleotide excision repair-deficient human cells. Satoshi Nakajima, Li Lan, Shin-ichiro Kanno, Masashi Takao, Kazuo Yamamoto, Andre P.M. Eker, and Akira Yasui, *J. Biol. Chem.*, 279 (2004) 46674–46677.
101. Spontaneous mutagenesis in haploid and diploid *Saccharomyces cerevisiae*. Gaku Ohnishi, Kingo Endo, Akiko Doi, Atsushige Fujita, Yasukazu Daigaku, Tatsuo Nunoshiba and Kazuo Yamamoto, *Biochem. Biophys. Res. Commun.*, 325 (2004) 928–933
102. Y Absence of strand bias for deletions mutagenesis during chromosomal leading and lagging strand replication in *Escherichia coli*. Yuki Nagata, Genta Kawaguchi, Yu-ichiro Tago, Masaru Imai, Takashi Watanabe, Shigehisa Sakurai, Makoto Ihara, Masakado Kawata and Kazuo Yamamoto, *Gene Genet. Systems*, 80 (2005) 1–8
103. Characterization of pathways dependent on *uvrE*, *uvrA1*, or *uvrA2* gene product for ultraviolet resistance in *Deinococcus radiodurans*. Masashi Tanaka, Issay Narumi, Tomoo Funayama, Masahiro Kikuchi, Hiroshi Watanabe, Tsukasa Matsunaga, Osamu Nikaido and Kazuo Yamamoto, *J. Bacteriol.*, 187 (2005) 3693–3697
104. Spontaneously occurring mutations in the cyclobutane pyrimidine dimer photolyase gene cause different sensitivities to ultraviolet-B in rice. Spontaneously occurring mutations in the cyclobutane pyrimidine dimer photolyase gene cause different sensitivities to ultraviolet-B in rice. Jun Hidema, Mika Teranishi, Yutaka Iwamatsu, Tokuhisa Hirouchi, Tadamasa Ueda, Tadashi Sato, Benjamin Burr, Betsy M. Sutherland, Kazuo Yamamoto and Tadashi Kumagai, *Plant J.*, 43 (2005) 57–67
105. CPD photolyase gene from *Spinacia oleracea*: repair of UV-damaged DNA and expression in plant organs. Ryouhei Yoshihara, Satoshi Imaki, Manabu Hori, Chihiro Watanabe, Kazuo Yamamoto and Koichi Takimoto, *J. Radiat. Res.*, 46 (2005) 157–164.
106. *Escherichia coli* mutator DpolA is defective in base mismatch correction: The nature of in vivo DNA replication errors. Yu-ichiro Tago, Masaru Imai, Makoto Ihara, Hironari Atofuji, Yuki Nagata and Kazuo Yamamoto, *J. Mol. Biol.*, 351 (2005) 299–308.

107. qUVR-10, a major quantitative trait locus for ultraviolet-B resistance in rice, encodes cyclobutane pyrimidine dimer photolyase.  
T. Ueda, T. Sato, J. Hidema, T. Hirouchi, K. Yamamoto, T. Kumagai and M. Yano, *Genetics*, 171 (2005) 1941–1950.
108. Spontaneous Mutagenesis in *Escherichia coli* and *Saccharomyces cerevisiae*.  
Masaru Imai, Yu-ichiro Tago, Kingo Endo, Gaku Ohnishi, Yuki Nagata, Tatsuo Nunoshiba and Kazuo Yamamoto, *Genes Environ*, 28 (2006) 9–15.
109. Specificity of replicative and SOS-inducible DNA polymerases in frameshift mutagenesis: Mutability of *Salmonella typhimurium* strains overexpressing SOS-inducible DNA polymerases to 30 chemical mutagens.  
Keiko Matsui, Masami Yamada, Masaru Imai, Kazuo Yamamoto and Takehiko Nohmi, *DNA Repair*, 5 (2006) 465–478.
110. Loss of heterozygosity in yeast can occur by ultraviolet irradiation during the S phase of the cell cycle.  
Yasukazu Daigaku, Satsuki Mashiko, Keiichiro Mishiba, Saburo Yamamura, Ayako Ui, Takemi Enomoto and Kazuo Yamamoto, *Mutation Res.*, 600 (2006) 177–183.
111. Ames test-negative carcinogen, ortho-phenyl phenol, binds tubulin and causes aneuploidy in budding yeast.  
Tatsuo Nunoshiba, Eri Watanabe, Teruhisa Takahashi, Yasukazu Daigaku, Satoko Ishikawa, Masataka Mochizuki, Ayako Ui, Takemi Enomoto and Kazuo Yamamoto, *Mutation Res.*, 617 (2007) 90–97.
112. Error-free RAD52 pathway and error-prone REV3 pathway determines spontaneous mutagenesis in *Saccharomyces cerevisiae*.  
Kingo Endo, Yasukazu Daigaku, Yu-ichiro Tago and Kazuo Yamamoto, *Gene Genet. Systems*, 82 (2007) 35–42.
113. Increase in CPD photolyase activity functions effectively for preventing ultraviolet-B-caused growth inhibition.  
Jun Hidema, Taku Taguchi, Taichi Ono, Mika Teranishi, Kazuo Yamamoto, Tadashi Kumagai, *Plant J.*, 50 (2007) 70–79
114. Activation of a novel pathway involving Mms1 and Rad59 in *sgs1* cells.  
Ayako Ui, Masayuki Seki, Hideaki Ogiwara, Mong Sing Lei, Kazuo Yamamoto, Shusuke Tada, Takemi Enomoto, *Biochem. Biophys. Res. Commun.*, 356 (2007) 1031–1037
115. The Role of 5'–3' exonuclease and Klenow fragment of *Escherichia coli* DNA polymerase I in base mismatch repair.  
Masaru Imai, Yu-ichiro Tago, Makoto Ihara, Masakado Kawata and Kazuo Yamamoto, *Mol. Genet. Genom.*, 278 (2007) 211–220

116. Frameshift mutations produced by 9-aminoacridine in wild-type, *uvrA* and *recA* strains of *Escherichia coli*; Specificity within a hotspot.  
Niranjan Acharya, Nagla Fathi Abu-Nasr, Genta Kawaguchi, Masaru Imai and Kazuo Yamamoto, *J. Radiat. Res.*, 48 (2007) 361–368.
117. *UvrA* and *UvrB* enhances mutations induced by oxidized deoxyribonucleotides.  
Mika Hori, Chieko Ishiguro, Noriko Nakagawa, Tatsuo Nunoshiba, Seiki Kuramitsu, Kazuo Yamamoto, Hiroshi Kasai, Hideyoshi Harashima, Hiroyuki Kamiya, *DNA Repair*, 6 (2007) 1786–1793
118. Biochemical and biological properties of DNA photolyases derived from ultraviolet sensitive rice-cultivars.  
Ayumi Yamamoto, Tokuhisa Hirouchi, Tamiki Mori, Mika Teranishi, Jun Hidema, Hiroshi Morioka, Tadashi Kumagai and Kazuo Yamamoto, *Gene Genetic Systems*, 82 (2007) 311–319
119. Recombinant *Schizosaccharomyces pombe* Nth1 protein exhibits DNA glycosylase activities for 8-oxo-7,8-dihydroguanine and thymine residues oxidized in the methyl group.  
S. Yonekura, N. Nakamura, T. Doi, H. Sugiyama, K. Yamamoto, S. Yonei and QM. Zhang, *J. Radiat. Res.*, 48 (2008) 417–424.
120. Base excision repair enzyme endonuclease III suppresses mutagenesis caused by 8-hydroxy-dGTP.  
Tetsuya Suzuki, Kazuo Yamamoto, Hideyoshi Harashima and Hiroyuuki Kamiya, *DNA Repair*, 7 (2008) 88–94
121. Temperature-Sensitive Photoreactivation of Cyclobutane Thymine Dimer in Soybean.  
Ayumi Yamamoto, Tanbir Najrana, Tokuhisa Hirouchi, Mika Teranishi, Jun Hidema, Hiroshi Morioka and Kazuo Yamamoto, *J. Radiat. Res.*, 49 (2008) 189–196.
122. The native cyclobutane pyrimidine dimer photolyase of rice is phosphorylated.  
Mika Teranishi, Kentaro Nakamura, Hiroshi Morioka, Kazuo Yamamoto and Jun Hidema, *Plant Physiol.*, 146 (2008) 1941–1951.
123. A novel monofunctional DNA glycosylase activity against thymine glycol in mouse cell nuclei.  
R. Yamamoto, M. Akiyama, H. Ide, K. Yamamoto, S. Matsuyama and K. Kubo, *J. Radiat. Res.*, 40 (2008) 249–259.
124. UVA1 genotoxicity is mediated not by oxidative damage but by cyclobutane pyrimidine dimers in normal mouse skin.  
Hironobu Ikehata, Kazuaki Kawai, Ko Sakatsume, Liangcheng Wang, Masaru Imai, Shoichi Higashi, Yoshinori Ohsumi, Osamu Nikaido, Kazuo Yamamoto, Hiroshi Kasai, Kotaro Hieda and Tetsuya Ono, *J. Invest. Dermatol.*, 128 (2008) 2289–2296.

125. Cloning and characterization of uracil-DNA glycosylase and the biological consequences of the loss of its function in the nematode *Caenorhabditis elegans*.  
Nobuya Nakamura, Hironobu Morinaga, Masahiro Kikuchi, Shin-Ichiro Yonekura, Naoaki Ishii, Kazuo Yamamoto, Shuji Yonei and Qiu-Mei Zhang, *Mutagenesis*, 23 (2008) 407–413.
126. 1-nitropyrene efficiently induces mitotic recombination in *Saccharomyces cerevisiae*,  
Lalla Rajaa Rhenimi, Nagla Fathi Abu-Nasr and Kazuo Yamamoto, *J. Radiat. Res.*, 49 (2008) 615–622.
127. Phenyl hydroquinone, Ames test-negative carcinogen, induces Hog1-dependent stress response signaling; implication for aneuploidy development in *Saccharomyces cerevisiae*.  
Ayumi Yamamoto, Tatsuo Nunoshiba, Keiko Umezu, Takemi Enomoto and Kazuo Yamamoto, *FEBS J.*, 275 (2008) 5733–5744.
128. Identification and characterization of R2R3-MYB and bHLH transcription factors regulating anthocyanin biosynthesis in gentian flowers.  
Takashi Nakatsuka, Katia Sanae Haruta, Chetsadaporn Pitaksutheepong, Yoshiko Abe, Yuko Kakizaki, Kazuo Yamamoto, Norimoto Shimada, Saburo Yamamura and Masahiro Nishihara, *Plant Cell Physiol.*, 49 (2008) 1818–1829.
129. Induction of mitotic delay, apoptosis and aneuploidy in human cells by phenyl hydroquinone, an Ames test-negative carcinogen.  
Masaru Imai, Ryo Matsuno, Jun-ichiro Komura, Tetsuya Ono and Kazuo Yamamoto, *Gene Genet. Systems*, 84 (2009) 73–79.
130. KsgA, a 16S rRNA adenine methyltransferase, has a novel DNA glycosylase/AP lyase activity to prevent mutations in *Escherichia coli*.  
Qiu-Mei Zhang-Akiyama, Hironobu Morinaga, Masahiro Kikuchi, Shin-Ichiro Yonekura, Hiroshi Sugiyama, Kazuo Yamamoto and Shuji Yonei, *Nucleic Acids Res.*, 37 (2009) 2116–2125.
131. Genetic analysis of repair and damage tolerance mechanisms for DNA-protein crosslinks in *Escherichia coli*.  
AMH Salem, Toshiaki Nakano, Nagisa Matoba, Tomohiro Tsuboi, Hiroaki Terato, Kazuo Yamamoto, Masami Yamada, Takehiko Nohmi and Hiroshi Ide, *J. Bacteriol.*, 191 (2009) 5657–5668.

## 和文

1. ニトロソグアニジンによる突然変異誘発機構。  
山本和生, 大阪大学医学部雑誌, 27 (1974) 43-46.
2. polymerase chain reaction 法を用いたコレラ毒素遺伝子の迅速診断法。  
小林一寛, 勢戸和子, 上口美弥子, 牧野正直, 石橋正憲, 赤坂 進, 山本和生,  
医学の歩み, 150 (1989) 509-510.
3. 活性酸素による突然変異のスペクトル。  
赤坂 進, 山本和生, 変異原研究, 16 (1995) 409-415.

## Ⅲ. 解説総説

### A) 和文

1. ニトロソグアニジンによる突然変異の標的は DNA 成分だけか？  
山本和生, 放射線生物研究, 10 (1975) 3-6.
2. プレオマイシンの作用機構。  
山本和生, 放射線生物研究, 17 (1982) 6-12.
3. 紫外線による DNA 損傷の光回復。  
山本和生, 生物物理, 25 (1985) 116-123.
4. DNA 修復遺伝子のクローニング。  
山本和生, 実験医学, 4 (1985) 220-226.
5. 大腸菌の光回復遺伝子の研究；遺伝子形質発現の誘導。  
大西武男, 井原 誠, 山本和生, 放射線生物研究, 22 (1987) 167-172.
6. 紫外線誘発突然変異の機構；(6 - 4) 付加体対ピリミジン二量体。  
山本和生, 放射線生物研究, 23 (1989) 159-172.
7. 光による光障害の回復。  
山本和生, 遺伝, 45 (1991) 49-54.
8. 8-hydroxyguanine (7,8-dihydro-8-oxoguanine; Go) による突然変異と修復。  
山本和生, 組織培養, 21 (1995) 427-431.
9. 活性酸素 (hydroxyl radical) による突然変異の特異性。  
赤坂 進, 山本和生, 放射線生物研究, 31 (1996) 206-218.
10. 活性酸素と自然突然変異スペクトル, 細胞内での OH・の生成にも鉄の関与する証拠。  
布柴達男, 小幡史子, 山本和生, 放射線生物研究, 33 (1998) 25-40.

11. 放射線抵抗性細菌デイノコックス・ラジオデュランス。  
山本和生, 遺伝, 54 (2000) 9-10.
12. 日焼けと皮膚がんと布団干し ― 紫外線による DNA 損傷と修復, 突然変異 ―  
田中将志, 山本和生, 放射線と産業, 85 (2000) 4-8.
13. 活性酸素種に起因する塩基損傷と DNA translesion 合成の関係。  
渡辺貴志, 布柴達男, 山本和生, 放射線生物研究, 36 (2001) 224-234.

#### IV. その他

紀伊民報（地方紙）への随筆

平成12年2月「ルミナリエと光のページェント」

平成12年7月「虫送りの頃」

平成12年12月「古代人の足跡」

平成13年5月「分嶺山の彼方」

平成13年9月「大学も構造改革」

平成14年2月「ボーイソプラノ」

平成14年7月「スポーツと人間性」

平成14年12月「セレンディビティー」

平成15年6月「挿し木にはいつか終焉がくる」

平成15年11月「学会を開くと言うこと」

平成16年4月「教育と暴力」

平成16年10月「高校生への生物学実習講座」

平成18年5月「イビキをかいた試験監督」

平成18年12月「学者の研究活動と不正行為」

平成19年4月「脳を鍛え、充実した人生を」

平成19年7月「笹の葉に託す七夕祭りの思い出」

平成19年10月「残暑が終わって芋煮会の季節」

平成20年3月「赤い野いちごのある風景」

平成20年7月「明かりが見える日本農業」

平成20年12月「ノーベル賞の道しるべ」

平成21年4月「これでは小学校の学級会」

平成21年8月「対立する意見を伝える義務」